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ENHANCING CAPACITY FOR LOW EMISSION DEVELOPMENT STRATEGIES (EC-LEDs) CLEAN ENERGY PROGRAM

COOPERATIVE AGREEMENT NO. 114-A-13-00008

REPORT ON EC-LEDs YOUTH ENERGY EFFICIENCY EVENTS



December, 2015 – April, 2016

This publication was produced for review by the United States Agency for International Development. It was prepared by Winrock International.

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DISCLAIMER

The author's views expressed in this publication do not necessarily reflect the views of the United States Agency for International Development or the United States Government.

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I. EXECUTIVE SUMMARY

The EC-LEDS Youth Energy Efficiency Event were held in Misaktsieli village on December 15th, 2015, in Mtskheta on March 23rd, 2016 and Rustavi on April 20th, 2016. Participants of the events were youth in the 9th-12th grades selected from the “Momavlis Taoba” (Future Generation) Program. The purpose of the events was to involve youth in energy efficiency, contributing to climate change mitigation.

This report presents a description, the list of participants, and an overview of materials used for the event.

2. YOUTH EE EVENT

2.1 PARTICIPANTS

The EC-LEDs Youth Energy Efficiency Event in Misaktsieli was attended by a total of 38 youth in the 9th to 12th grades and 5 teachers from the villages of Misaktsieli, Dzveli Kanda, Akhaldaba, Tsilkani, Ksovrisi, Jinvali, Tchartali and Khevsurtsopeli (21 females, 22 males), in Mtskheta - a total of 41 youth in the 9th to 12th grades from the villages of Sakramuli, Nichbisi and Sioni (24 females, 17 males) and in Rustavi - a total of 34 youth in the 9th to 12th grades from Rustavi and Gardabani schools (13 females, 21 males).

Full lists of participants are provided in **Attachment A**.

2.2 CONTENT

The EC-LEDs Youth Energy Efficiency Events were 2.5 hours long, of which the first two hours were dedicated to “How to Save Energy”. The seminar covered the following topics:

- **What is Energy Efficiency**: A brief introduction to energy efficiency and explanation of energy terms.
- **Ways to Save Energy**: Various ways to save energy and the energy audit.
- **Information Campaigns**: A brief description of advertising and information campaigns about energy efficiency.
- **The Importance of Energy Efficiency**: The importance of energy efficiency with regard to the rational use of energy, energy security of the state, and the importance of energy efficiency for Georgia.
- **Energy Efficiency in the Residential Sector**: How to save energy at home.
- **Energy Efficient Technologies**: An introduction to technologies and appliances.
- **Renewable Energies**: Renewable energy sources were discussed with examples of technologies and how to use them.
- **Energy Efficient Projects**: Some energy efficient projects supported by donor organizations.

In the second part of the event the students participated in contests and given simple EE tests covering the topics of the session. The top three winners were awarded with medals. All students and teachers were awarded with participation certificates. The contest questions are provided in **Annex B**.

2.3 PRESENTER

The EC-LEDs Youth energy efficiency events were conducted by Dean of Energy and Telecommunications Faculty at Georgian Technical University, Professor Gia Arabidze. The seminar topics and presentation were developed specifically for EC-LEDs Youth Energy Efficiency Event by presenter in cooperation with EC-LEDs staff.

2.4 VENUE, TIMING AND LOGISTICS

The EC-LEDS Youth Energy Efficiency Event in Misaktsieli was held in Misaktsieli Public School, Misaktsieli village, Mtskheta Municipality. The event in Mtskheta was held in the building of Mtskheta Municipality Gamgeoba (Administrative Body of the Mtskheta Municipality). The event in Rustavi was held in the Rustavi Civic Engagement Center (22, Kostava street, Rustavi).

The materials were in Georgian and the events were free for all participants.

The event was organized by EC-LEDS in collaboration with of PH International within the framework of the USAID-supported “Momavlis Taoba” (Future Generation) Program.

3. CONCLUSION

Youth participated actively, with questions and lively discussions. All participants noted the importance of organizing similar events, as such meetings contributed to their awareness of the subjects. They were satisfied with all aspects of the training and confirmed that the presentations met their expectations. After the events, students made commitments to conduct simple home energy audits and spread the word about energy saving among their families and schools.

4. ATTACHMENT B: CONTEST QUESTIONNAIRE



Contest “Energy Efficiency Is A Smart Choice”

Name, Surname _____

City _____

School # _____

Please select the correct answer:

1. Location of a refrigerator near heating devices affects the efficiency of its operation:

a. Positively _____

b. Negatively _____

2. A TV set in stand-by mode consumes electricity:

a. Yes _____

b. No _____

3. What is the impact of hot dishes placed in the refrigerator?

a. Reduces energy consumption of the appliance _____

b. Increases energy consumption of the appliance _____

4. Is it more efficient to read a book by the window to use daylight efficiently?

a. Yes _____

b. No _____

5. When using water heater tank (e.g. Thermex) should the regulator be set at the maximum position?

a. Yes _____

b. No _____

6. In order to maintain warmth in the room generated from fire place or wood stove, is there a need to lower or close the cover in case of their extinguishment?

a. Yes _____

b. No _____

7. 80% of consumed energy in a dwelling is consumed by:

a. Heating _____

b. Cooking _____

c. Water heating _____

8. Is it possible to detect a draught's direction with a candle?

a. Yes _____

b. No _____

9. Is it necessary to ensure air tightness of doors and windows to reduce energy consumption?

a. Yes _____

b. No _____

10. Can packaging tape ensure energy saving if it is fixed on both sides of a cracked window glass?

a. Yes _____

b. No _____

11. Is it more efficient to open a window frequently and for a short time to air a storage area?

a. Yes _____

b. No _____

12. When do we spend more energy: while taking a bath or a shower?

a. Bath _____

b. Shower _____

13. When cooking, can improperly selected saucepans be a cause for energy loss?

a. Yes _____

b. No _____

14. When cooking, should a pan fit the size of the burners?

a. Yes _____

b. No _____

15. A rounded bottom or wrong size of a pan prolongs cooking time by:

a. 10% _____

b. 40% _____

c. 120% _____

16. Can a label fixed on home appliances help us detect the energy efficiency of an appliance?

a. Yes _____

b. No _____

17. Can we save energy if we turn the TV set off of stand-by mode?

a. No _____

b. Yes _____

18. In order to save energy one should start ironing:

a. From the lowest temperature _____

b. From the highest temperature _____

19. Is it possible to get the same light from 25 watt bulb as from 100 watt bulb?

a. Yes _____

b. No _____

20. By using modern energy efficient bulbs, we can reduce energy consumption by:

a. 15% _____

b. 60% _____

c. 100% _____

Correct Answers

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
b	a	b	a	b	a	a	a	a	a	a	a	a	a	b	a	a	a	a	b

5. ATTACHMENT C: AWARDS

Certificate



Medals



Caps, T-shirts, Pens

